

U.S. Serial No. 09/684,328
Attorney Docket No. JA919990169US1
(YOR.235)

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AMENDMENTS TO THE CLAIMS:

1. (Currently amended) A data transferring apparatus for transferring transfer packets each including one or more transfer data as objectives of transfer from a first apparatus to a second apparatus, said each transfer data including commands indicating processes against a preliminarily assigned area, said first apparatus including:

a scheduler for merging a plurality of drawing commands ~~said transfer data~~ meeting a certain requirement and for translating said merged drawing commands into a single drawing command, thereby reducing a volume of said transfer data; and

a communication controller for generating transfer packets each including at least one of one or more said plurality of drawing commands ~~transfer data~~ whose amount is within a certain predetermined range and one or more said merged drawing commands ~~transfer data,~~

said communication controller transferring said generated transfer packets to said second apparatus.

2. (Currently amended) A data transferring apparatus for transferring transfer packets each including one or more transfer data as objectives of transfer from a first apparatus to a second apparatus, said each transfer data including commands indicating processes against a preliminarily assigned area, said first apparatus including:

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means for merging a plurality of drawing commands ~~said transfer data~~ meeting a certain requirement and for translating said merged drawing commands into a single drawing command, thereby reducing a volume of said transfer data;

means for generating transfer packets each including at least one of one or more said plurality of drawing commands ~~transfer data~~ whose amount is within a certain predetermined range and one or more said merged drawing commands ~~transfer data~~ and

means for transferring said generated transfer packets to said second apparatus.

3. (Original) The apparatus of claim 2, wherein said means for merging comprises a scheduler for judging whether an offset can be performed by merging an increment of data volume caused by a change of drawing commands.

4. (Original) The apparatus of claim 3, wherein if said scheduler judges that said offset is possible, then said scheduler changes the drawing commands.

5. (Original) The apparatus of claim 3, wherein said means for generating comprises a communication controller which generates said transfer packets which contain merged drawing commands which are more than a predetermined data volume in quantity.

6. (Original) The apparatus of claim 2, wherein said first apparatus comprises a computer and said second apparatus comprises a display apparatus.

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7. (Currently amended) A data transferring method for transferring transfer packets each including one or more transfer data as objectives of transfer from a first apparatus to a second apparatus, said each transfer data including commands indicating processes against a preliminarily assigned area, and said first apparatus being capable of:

merging a plurality of drawing commands ~~said transfer data~~ meeting a certain requirement and translating said merged drawing commands into a single drawing command, thereby reducing a volume of said transfer data;

generating transfer packets each including at least one of one or more said plurality of drawing commands ~~transfer data~~ whose amount is within a certain predetermined range and one or more said merged drawing commands ~~transfer data~~; and

transferring said generated transfer packets to said second apparatus.

8. (Original) The method of claim 7, wherein said merging comprises judging whether an offset can be performed by merging an increment of data volume caused by a change of drawing commands.

9. (Original) The method of claim 8, wherein if said judging judges that said offset is possible, then the drawing commands are changed.

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10. (Original) The method of claim 7, wherein said first apparatus comprises a computer and said second apparatus comprises a display apparatus.

11. (Currently amended) A medium for mediating a program for transferring transfer packets each including one or more transfer data as objectives of transfer from a first apparatus to a second apparatus, said each transfer data including commands indicating processes against a preliminarily assigned area, and said first apparatus being capable of making a computer execute:

merging a plurality of drawing commands ~~said transfer data~~ meeting a certain requirement and translating said merged drawing commands into a single drawing command, thereby reducing a volume of said transfer data;

generating transfer packets each including at least one of one or more said plurality of drawing commands ~~transfer data~~ whose amount is within a certain predetermined range and one or more said merged drawing commands ~~transfer data~~; and

transferring said generated transfer packets to said second apparatus.

12. (Original) The medium of claim 11, wherein said merging comprises judging whether an offset can be performed by merging an increment of data volume caused by a change of drawing commands.

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13. (Original) The medium of claim 12, wherein if said judging judges that said offset is possible, then the drawing commands are changed.

14. (Original) The medium of claim 12, wherein said first apparatus comprises a computer and said second apparatus comprises a display apparatus.

15. (Currently amended) The apparatus of claim 1, wherein said scheduler generates ~~said a plurality of drawing commands instructions~~ to be transferred from said first apparatus to said second apparatus by combining an effect of said [[a]] plurality of drawing commands instructions which affect a same area in a predetermined short period of time on a frame buffer.

16. (Currently amended) The apparatus of claim 2, wherein said means for merging generates ~~said a plurality of drawing commands instructions~~ to be transferred from said first apparatus to said second apparatus by combining an effect of said [[a]] plurality of drawing commands instructions which affect a same area in a predetermined short period of time on a frame buffer.

17. (Previously presented) The method of claim 7, wherein said merging further comprises generating a plurality of drawing instructions to be transferred from said first apparatus to said second apparatus by combining an effect of a plurality of drawing

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instructions which affect a same area in a predetermined short period of time on a frame buffer.

18. (Currently amended) The apparatus of claim 1, wherein said communication controller transfers only updated areas on a frame memory by analyzing graphics commands in a form of drawing commands to said second apparatus.

19. (Currently amended) The apparatus of claim 2, wherein said means for transferring transfers only updated areas on a frame memory by analyzing graphics commands in a form of drawing commands to said second apparatus.

20. (Currently amended) The method of claim 7, wherein said transferring comprises transferring only updated areas on a frame memory by analyzing graphics commands in a form of drawing commands to said second apparatus.

21. (Previously presented) The apparatus of claim 2, wherein said first apparatus includes a first drawing engine and said second apparatus includes a second drawing engine.

22. (Previously presented) The apparatus of claim 2, wherein said first apparatus and said second apparatus include redundant drawing engines.

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23. (Previously presented) The apparatus of claim 2, wherein said first apparatus comprises a computer including a first drawing engine, and
wherein said second apparatus comprises a display apparatus including a second drawing engine.

24. (Previously presented) The apparatus of claim 21, wherein said first drawing engine and said second drawing engine each include a dedicated frame memory unit.

25. (Currently amended) The apparatus of claim 21, wherein said first drawing engine and said second drawing engine generate identical images including a different timing due to at least one communication error ~~a data transfer delay~~ from said first apparatus to said second apparatus.

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